

## EAST Search History

| Ref # | Hits  | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|--|------------------|---------|------------------|
| L1    | 27    | (US-20050077468-\$ or US-20030143581-\$ or US-20030129311-\$ or US-20040042268-\$ or US-20040175586-\$ or US-20040077183-\$ or US-20030235064-\$ or US-20010024387-\$).did. or (US-6737364-\$ or US-6579463-\$ or US-6361660-\$ or US-6304024-\$ or US-6159620-\$ or US-6413819-\$ or US-6927136-\$ or US-6090666-\$ or US-6297095-\$ or US-6165842-\$ or US-6342712-\$ or US-6335240-\$ or US-6319769-\$ or US-6281543-\$ or US-6207487-\$ or US-5182232-\$ or US-6448131-\$ or US-5998824-\$ or US-6270572-\$).did. | US-PGPUB; USPAT                                    | OR               | ON      | 2006/06/19 09:46 |
| L2    | 4     | L1 and ((tantalum near nitride) or TaN)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/19 09:46 |
| S1    | 2     | ("20050118449").PN.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2006/06/16 10:47 |
| S2    | 19792 | nanoparticle  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/16 10:47 |
| S3    | 53789 | monolayer   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/16 10:49 |
| S4    | 3176  | S2 and S3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/06/16 10:49 |

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|     |         |   |   |    |    |                  |
|-----|---------|---|---|----|----|------------------|
| S5  | 3159001 | semiconductor or substrate  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 10:49 |
| S6  | 2749    | S2 and S3 and S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 10:50 |
| S7  | 354     | S6 and tungsten   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 11:16 |
| S8  | 13784   | tungsten with (monolayer or nanoparticle or particle or (quantum near dot)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 11:17 |
| S9  | 3352    | tungsten near (monolayer or nanoparticle or particle or (quantum near dot)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 13:22 |
| S10 | 38275   | (atomic near layer near deposit\$5) or (ALD)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 11:17 |
| S11 | 250     | ((atomic near layer near deposit\$5) or (ALD)) and (WF)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 11:19 |
| S12 | 0       | S9 and S11  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 11:18 |

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|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S13 | 8    | ((atomic near layer near deposit\$5))<br>and (WF or TaF)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 11:20 |
| S14 | 5413 | (tungsten or W or tantalum or Ta)<br>near (monolayer or nanoparticle or<br>particle or (quantum near dot)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 11:22 |
| S16 | 1604 | S15 not (nucleic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 11:26 |
| S17 | 198  | S16 and monolayer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 13:08 |
| S18 | 0    | "heath.jame"\$\$.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 13:10 |
| S19 | 73   | "heath-jame"\$\$.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 13:11 |
| S20 | 13   | freescala\$.as. and ONO  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/06/16 13:14 |
| S21 | 2    | ("6706599").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/16 13:14 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S22 | 7    | ("5021999"   "5877523"   "6011725"   "6121072"   "6133098"   "6492228").PN. OR ("6706599").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:14 |
| S23 | 5    | ("5021999"   "5498888"   "6011725"   "6178113"   "6760252").PN. OR ("6855979").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:15 |
| S24 | 10   | ("20030234420"   "20030235064"   "3878549"   "6413819"   "6574144"   "6611019"   "6656792"   "6690059"   "6740928"   "6844231").PN. OR ("6991984").URPN.             | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:15 |
| S25 | 18   | ("3878549"   "6060743"   "6090666"   "6140181"   "6166401"   "6208000"   "6310376").PN. OR ("6413819").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:17 |
| S26 | 18   | ("3878549"   "6060743"   "6090666"   "6140181"   "6166401"   "6208000"   "6310376").PN. OR ("6413819").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:19 |
| S27 | 11   | ("20020086507"   "20030235064"   "5768192"   "5783263"   "5876480"   "6165842"   "6297095"   "6303516"   "6342716"   "6413819"   "6750471").PN. OR ("6927136").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/06/16 13:19 |
| S28 | 3286 | tungsten near (nanoparticle or particle or (quantum near dot))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 13:23 |
| S29 | 1    | tungsten near ((quantum near dot))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 13:22 |
| S30 | 1    | (tungsten near (nanoparticle or particle or (quantum near dot))) and (tungsten near monolayer)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/16 13:23 |

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|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S31 | 2  | ("20010024387").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/16 15:37 |
| S32 | 3  | ((("6831315") or ("6780704"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/16 15:37 |
| S33 | 37 | ("4058430"   "4747367"   "4761269"<br>  "5071670"   "5182232"  <br>"5187638"   "5418180"   "5504041"<br>  "5519234"   "5554557"  <br>"5576928"   "5608247"   "5619393"<br>  "5622893"   "5637527"  <br>"5650351"   "5688724"   "5729054"<br>  "5754390"   "5769950"  <br>"5869860"   "5916365"   "5923056"<br>  "6037206"   "6084765"  <br>"6090659"   "6107136"   "6184074"<br>  "6200897"   "6207487"  <br>"6281543"   "6319769"   "6335240"<br>  "6342712").PN. OR ("6831315").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/06/16 15:38 |
| S34 | 81 | ("4663191"   "4833099"  <br>"5043780").PN. OR ("5182232").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/06/16 15:51 |
| S35 | 45 | ("4058430"   "4747367"   "4761269"<br>  "5071670"   "5182232"  <br>"5187638"   "5392189"   "5418180"<br>  "5504041"   "5519234"  <br>"5554557"   "5576928"   "5608247"<br>  "5617290"   "5619393"  <br>"5622893"   "5633781"   "5637527"<br>  "5650351"   "5688724"  <br>"5729054"   "5754390"   "5769950"<br>  "5869860"   "5916365"  <br>"5923056"   "6037206"   "6084765"<br>  "6090659"   "6107136"  <br>"6184074"   "6200897"   "6207487"<br>  "6270572"   "6281543"  <br>"6297539"   "6319769"   "6335240"<br>  "6342712").PN. OR ("6780704").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/06/16 16:03 |